

CLAIMS

1. A conveyor and powder paint collection system, including a powder paint application booth having a conveyor conveying parts to be painted through said powder paint booth and a powder paint collection system located below said powder paint application booth, said conveyor and powder paint collection system comprising:
- 5 spaced continuous parallel first and second moving belts located within said powder paint booth, said first continuous belt supported by a plurality of spaced first rollers and said second continuous belt supported by plurality of spaced second rollers, a first housing enclosing said plurality of spaced first rollers in sealed relation, and a second
- 10 housing spaced from said first housing enclosing said plurality of spaced second rollers in sealed relation; and
- a powder paint collector receiving excess powder paint from said powder paint booth including excess powder paint received between said first and second housings.
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2. The conveyor and powder paint collection system as defined in Claim 1, wherein said spaced continuous parallel first and second belts are each formed of stainless steel.
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3. The conveyor and powder paint collection system as defined in Claim 1, wherein said powder paint booth includes grating between said first and second housings supported by said housings.

4. The conveyor and powder paint collection system as defined in Claim 1, wherein said powder paint collection system includes two powder paint collectors located on opposed sides of said first and second housings beneath said powder paint booth and a baffle directing excess powder paint received between said first and second housings to one of said powder paint collectors.

5. The conveyor and powder paint collection system as defined in Claim 4, wherein said baffle is V-shaped having an apex located generally between and adjacent said first and second housings.

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6. The conveyor and powder paint collection system as defined in Claim 1, wherein said first and second housings each include spaced sealing elements engaging opposed lateral edges of said spaced continuous parallel first and second belts.

7. The conveyor and powder paint collection system as defined in Claim 1, wherein each of said first and second belts have a width of less than ten inches.

8. A conveyor for conveying parts to be painted through a powder paint booth wherein powder paint is applied to said parts, said conveyor comprising:

spaced continuous parallel moving first and second stainless steel belts, said first stainless steel belt supported by a plurality of spaced first rollers and said second stainless steel belt supported by a plurality of spaced second rollers, a first housing enclosing said first rollers in sealed relation and a second housing spaced from said first housing enclosing said second rollers in sealed relation.

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9. The conveyor for conveying parts through a powder paint booth as defined in Claim 8, wherein said conveyor includes grating located between and supported by said first and second housings.

5 10. The conveyor for conveying parts through a powder paint booth as defined in Claim 8, wherein said first and second stainless steel belts each have a width of less than ten inches.

10 11. A method of collecting powder paint from a powder paint application booth, said powder paint application booth having a conveyor conveying parts to be painted through said powder paint application booth including spaced parallel sealed housings each including a continuous moving belt and rollers supporting said continuous belts located within said spaced sealed housings and a powder paint collector located below said powder paint application booth, said method comprising the following steps:

15 applying powder paint to a part conveyed through said powder paint application booth by said conveyor; and

directing air between said spaced parallel sealed housings, thereby directing at least a portion of excess powder paint between said housings and into said powder paint collector.

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12. The method of applying and collecting excess powder paint from a powder paint application booth as defined in Claim 11, wherein said collector includes two collectors on opposed sides of said housings and a baffle directing excess powder paint received between said housings to said collectors, said method including directing
5 air through a grate supported on opposed sides of said housings and between said spaced parallel sealed housings, thereby collecting excess paint from between said housings and on opposed sides of said housings.